

kyndryl.

# Kyndryl Secure Access Service Edge Managed Services





Digital transformation enables businesses to unlock and hone their competitive edge using cost-efficient, shared and scalable IT services from cloud service providers, accessible from virtually anywhere through a low-cost network: the Internet.

The Internet plays a pivotal role in digital transformation. The traditional approach of a hub-and-spoke network leads to challenges in providing cost-effective, low-latency, secure connections for a good user experience in a highly distributed IT environment. The Internet must become a vital part of the corporate network fabric, requiring a new, holistic management and monitoring approach that controls all edges and visibility, as well as orchestration capabilities to manage and operate this new network fabric.

At the same time, rapidly increasing security vulnerabilities are amplified by unmanaged end-user devices and applications moving to cloud, requiring a new mindset for approaching security.

## What is secure access service edge?

Secure access service edge (SASE) solutions are a new category of network security that integrates networking and security into a cloud-delivered service. At its core, SASE converges zero-trust networking capabilities from software-defined wide-area networks (SD-WANs) and remote user access with security features like firewalls, cloud access security brokers (CASB), secure web gateway (SWG) and other services into a single identity-centric solution.

## Why SASE and why now?

Today's workers are using all kinds of devices to access corporate data from anywhere, at any time and from multiple geographical locations. The rise of cloud computing and mobility have uprooted many fundamental assumptions about legacy technology infrastructure. The days of guarding a fortified perimeter like the corporate data center have given way to environments without perimeters, spreading applications across a variety of cloud, data center, and on-premises environments. And with data flowing everywhere, businesses often contend with a general lack of control across user and network activity.

This combination of identity, networking and security into a single, cloud-centric delivery model can greatly simplify the architecture of IT infrastructure and create a continuously updated security posture that can evolve to meet ever-changing threats and business needs.

**Over the next five years, the market for secure access service edge will grow at a compound annual growth rate of 29%, reaching over US\$25 billion by 2027.<sup>1</sup>**



## Zero-trust security service edge

Traditionally, the security perimeter was synonymous with the physical perimeter of an organization. Any asset within this perimeter was shielded from the public and only made visible to privileged, known identities like employees, business partners or customers. Data flow to and from the Internet was easily controlled, allowing for a standardized, centralized security management approach.

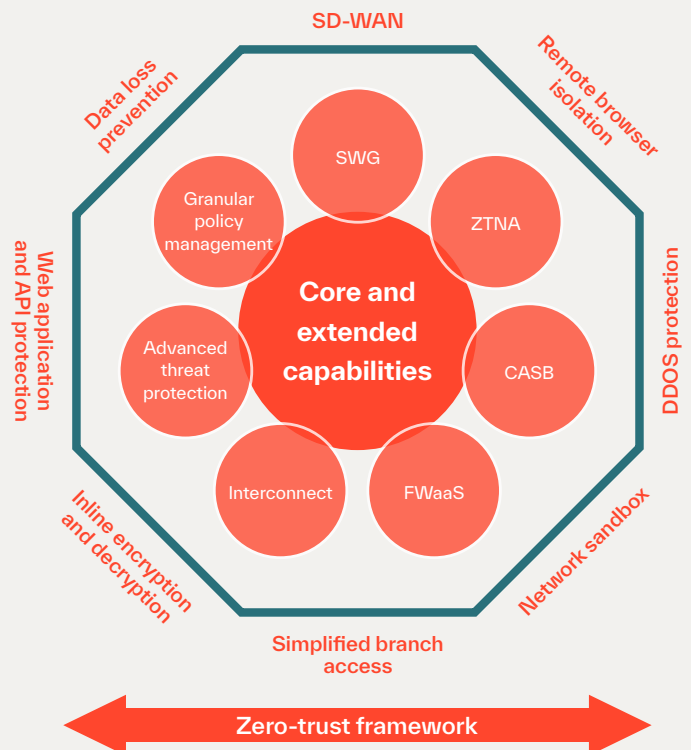
Moving assets outside this protected enclave results in less control over some parts of the IT infrastructure. The new security services edge (SSE) architecture model addresses security requirements of a distributed IT architecture by moving security controls to all edges with unified monitoring and management capabilities. Additionally, applying

zero-trust methodology supports a manageable security architecture that is highly resilient against common threats like zero-day attacks and ransomware.

## Our approach

The Kyndryl™ Secure Access Service Edge solution offers zero-trust access to enterprise IT resources hosted both on the cloud and in datacenters. Our vendor-neutral approach to WAN, security solutions and services ensures consistent application, policy and user experience. Designed to deliver comprehensive cloud security capabilities, our SASE solution minimizes threat exposure, maximizes user experience and eliminates traditional, high-cost, on-premises components like firewalls, proxies and VPN gateways. Managed SD-WAN provides a more

intelligent WAN, enhancing visibility by establishing business protocols for both network traffic and application routing over the most efficient path. With a diverse selection of access options—including broadband, dedicated internet and wireless connectivity—and extensive experience with cloud-managed SD-WAN and cloud-delivered security, Kyndryl works side by side with you to advise, build and manage WAN solutions.

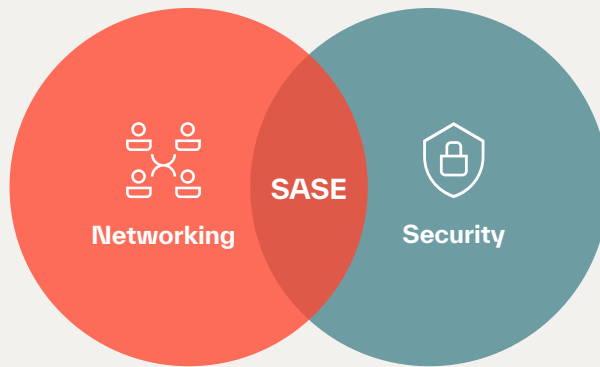


## Monitoring and analytics

## Automation and orchestration

### Network as a service

- Connect**
- SD-WAN
  - WAN links
  - 4G and 5G
  - CDN
  - SDCI



### Security as a service

- Protect**
- ZTNA
  - FWaaS
  - SWG
  - CASB

## Any deployment



Private Cloud



On-Premise



Public Cloud



Multi-Cloud



Multi-Tenant

## Any service



Data Center



Cloud Service Providers



Voice and Collaboration



Analytics



SaaS

## Any transport



Satellite



Internet



MPLS



LTE/5G

## Any entity



Branch Office



Home



Mobile



Anywhere

Figure 1: Kyndryl Secure Access Service Edge



## Core Components

<p>Software-defined wide area network (SD-WAN)</p>	<p>Intelligent routing   Media independence   Cost effectiveness</p>
<p>Cloud access security broker (CASB)</p>	<p>Sensitive data protection   Threat protection   Greater visibility</p>
<p>Zero-trust network access (ZTNA)</p>	<p>Identity-based access   Micro-segmentation   Risk-based posture validation</p>
<p>Secure web gateway (SWG)</p>	<p>URL filtering   Policy control enforcement   Application control   Remote browser isolation</p>
<p>Firewall as a service (FWaaS)</p>	<p>Data packet inspection   Intrusion prevention   Application-level security</p>
<p>Design, build &amp; managed services</p>	<p>End-to-end advisory, design and build services for SASE solutions   Comprehensive managed services   Other adjacent services including security operations center (SOC) services, data center managed services, etc.</p>

Figure 2: Kyndryl SASE features and capabilities

## Managed services for Kyndryl SASE

Enhance visibility and control over application access while optimizing application performance for your distributed workforce by centralizing network and security policy management. Simplify your service deployment and management through Kyndryl's centralized experience. Dynamically scale your network and security through our tried-and-tested offerings, designed for ease adding sites, apps and users. Our cloud-based service enables rapid business scaling.

Our all-inclusive lifecycle services support the Kyndryl SASE solution, spanning consulting, planning and design, product procurement, implementation and managed network services.

Our experienced team facilitates a smooth transition from traditional networking and security setups to a SASE framework.

## Tailored solution packages

Kyndryl offers versatile solution packages tailored to facilitate digital transformation.

## Single point of contact for your network operations center and security operations center

Kyndryl's global, integrated network operations center (NOC) and security operations center (SOC) consist of multiple teams dispersed geographically to provide redundancy, using artificial intelligence and machine learning to monitor networks and potential security threats.

## Professional services

Our managed services for Kyndryl SASE are bolstered and enriched by professional services, which include security evaluations, analysis of compliance standards gaps and support for incident response.



Figure 3: Transformative value of Kyndryl SASE

# Why Kyndryl?

Kyndryl has deep expertise in designing, running and managing the most modern, efficient and reliable network and security infrastructure the world depends on every day. We are deeply committed to advancing the critical infrastructure that powers human progress. We're building on our foundation of excellence by creating systems in new ways: bringing in the right partners, investing in our business and working side by side with our customers to unlock potential.

## Next steps

Discover how Kyndryl SASE can help you unlock new value from your digital transformation journey. Schedule a free consultation today. [Talk to an expert.](#)



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1 Forecast Analysis: Secure Access Service Edge, Worldwide, Gartner, October 2023